



# AUT 2019:

## An ocean of opportunities

23<sup>rd</sup> October 2019 ♦ Parmelia Hilton Perth, Western Australia

### CALL FOR ABSTRACTS



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As autonomous technology continues to evolve, primarily from investment from the defence sector, research and private industry, users have improved access to deliver solutions from autonomous platforms. Whether these automated solutions are achieved through autonomous underwater vehicles, unmanned surface vessels and/or autonomous control software for ships the offshore industry continues to witness rapid advancements in this space.

From a subsea perspective AUVs are able to collect greater amounts of data more efficiently and access more remote and difficult to access areas to meet customer requirements. These include (but are not limited to); improved autonomy, increased on bottom time, increased payload options for oceanographic, environmental, salvage and inspection applications, faster speeds, the ability to explore at greater depths, increased data handling and resolution and improved navigation methods. These technological improvements have resulted in autonomous technology being made more readily available to the various industry sectors resulting in superior and broader data capture for customers and increased information sharing and collaboration between private industry, defence and research sectors.

More specifically, autonomous technology is allowing us to image and map deep oceans in high resolution, which would otherwise be inaccessible, inspect offshore infrastructure in greater detail to aid life of field decisions, assists in rapidly mapping large tranches of the seabed for salvage operations and/or research and development and acts as a safe and reliable platform for mine counter measure and other defence operations. These relatively broad applications for autonomous technology will result in continued investment and subsequent technological advancements resulting in autonomous technology being promoted as the platform of choice to deliver solutions to customers.

To acknowledge this important and growing industry sector, the AHS/SUT conference organising committee aims to demonstrate these new applications and different technologies along with supporting the ongoing experiences of the traditional acquisition of underwater data.

This long running and well reputed conference continues to be one of the most globally important networking opportunities in this field, allowing contact between defence, industry and research specialists.

Abstracts are sought for this conference, based on recent advances and case studies pertinent to AUT . Topics could include (but are not limited to):

- Pipeline Inspection by AUV
- Contactless CP
- Hydrocarbon detection and mapping
- Subsea Wireless Mesh Networking,
- Swarming technologies and algorithms
- Improvements in battery technology, yielding longer mission durations
- Ability to generate own power and increase mission endurance
- AUV payload advances, such as INS, MBES, SSS, seismic systems, communication links
- Launch/recovery systems
- AUV Simulation
- Innovations in oceanographic and marine environmental gliders
- Advances in geotechnical data gathering using robotic drilling techniques
- The role of AUT in subsea intervention and IMR applications
- Metocean and environmental applications
- Military and security applications using AUT
- Latest developments with USV's (Unmanned Surface Vehicles)
- Search & Rescue using remote or automated technologies
- Personnel Transfer (Military & Recreational applications)

Abstracts must be received by the date mentioned below. Only those abstracts judged to be relevant and of sufficient quality will be considered for inclusion in the conference programme. Selected authors will be notified and presentations selected by the date noted below. Deadlines are taken seriously to meet review deadline and give time for changes based on feedback. Please note we are looking for technical presentations only (no technical papers required) and 'sales biased' presentations will not be accepted.

#### Abstracts should include the following:

1. Title of abstract
2. List of authors (with presenting author noted), stating title, first name, surname, job title and organisation represented
3. The abstract should be 200 words or less conveying the work presented and the results obtained (Microsoft Word format)
4. Full postal address and telephone number (for admin use only).

Please submit your abstract for consideration to [j.maninin@sut.org](mailto:j.maninin@sut.org)

#### KEY DATES

**Deadline for Presentation Abstracts:**  
**Friday, 3<sup>rd</sup> May 2019**

Selected Authors will be notified by: Friday, 28<sup>th</sup> June 2019

**Final version of PowerPoint presentations & Presenters registration:**  
**Friday, 11<sup>th</sup> September 2019**

#### Author's Expenses

Authors are responsible for all costs incurred in the preparation of their presentations, including travel, accommodation and associated expenses.

#### Concessions

First named authors/presenters will enjoy complimentary full registration of the conference. Co-authors should register at the delegate rate.

#### Conference Proceedings

The presentations of this conference will available on the SUT website.

#### Submission and Contact Information

For abstract submission, sponsorship & exhibition enquiries, please contact:  
Jennifer Maninin, Branch Manager, Society for Underwater Technology – Perth Branch, Tel: +61 (0) 8 9481 0999, Email: [j.maninin@sut.org](mailto:j.maninin@sut.org)

#### 2019 Conference Organising Committee includes:

- ♦ Shuhong Chai, AMC University
- ♦ Steve Duffield, Guardian Geomatics ♦ Pat Fournier, Neptune ♦ Stuart Higgins, Curtin University ♦ Ian Hobbs, Fugro Survey ♦ Nick Lake, Shell Australia ♦ Graeme Moya, UTEC Survey ♦ Brendan Reid, Innovative Solutions Plus ♦ Anurag Saxena, TMT
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